Title (en)

Method of producing D-amino acid and amine

Title (de)

Verfahren zur Herstellung einer D-Aminosäure und eines Amins

Title (fr)

Procédé de préparation d'un acide aminé et d'une amine

Publication

EP 0859060 A3 20000726 (EN)

Application

EP 98102525 A 19980213

Priority

- JP 3098197 A 19970214
- JP 3030298 A 19980213
- US 2388498 A 19980213

Abstract (en)

[origin: EP0859060A2] D-amino acid with high optical purity represented by formula (1-A) and/or formula (1-B), <CHEM> wherein R represents H or OH, <CHEM> wherein R1, R2 each represents H or OH, and amine represented by formula (2-A) and/or formula (2-B) <CHEM> wherein R represents H or OH, <CHEM> wherein R1 and R2 each represents H or OH, can be produced economically in an industrial scale by contacting a mixture of enantiomers of amino acid represented by the above formula (1-A) and/or formula (1-B) with a microorganism capable of selectively degrading L-amino acid or with at least one of the treated products of the microorganism.

IPC 1-7 (main, further and additional classification)

C12P 41/00; C12P 13/22

IPC 8 full level (invention and additional information)

C12P 13/22 (2006.01); **C12P 41/00** (2006.01); C12R 1/645 (2006.01); C12R 1/66 (2006.01); C12R 1/69 (2006.01); C12R 1/77 (2006.01)

CPC (invention and additional information)

C12P 41/001 (2013.01); **C12P 13/22** (2013.01)

Citation (search report)

- [X] EP 0751224 A1 19970102 - DAICEL CHEM [JP]

- [YD] DATABASE WPI Section Ch Week 198037, Derwent World Patents Index; Class B05, AN 1980-65285C, XP002139132
- [YD] PATENT ABSTRACTS OF JAPAN vol. 004, no. 155 (C - 029) 29 October 1980 (1980-10-29)
- [A] CHEMICAL ABSTRACTS, vol. 101, no. 1, 2 July 1984, Columbus, Ohio, US; abstract no. 2923, SKVORTSOVA, E. E. ET AL: "Aminoacylase from Streptoverticillium microorganisms: stereo- and substrate specificity" XP002139130 & BIOKHIMIYA (MOSCOW) (1984), 49(4), 547-50BIOKHIMIYA (MOSCOW) (1984), 49(4), 547-50
- [A] CHEMICAL ABSTRACTS, vol. 105, no. 9, 1 September 1986, Columbus, Ohio, US; abstract no. 77531, ALLENMARK, STIG ET AL: "Enantioselective microbial degradation of some racemates studied by chira liquid chromatography" XP002139131 & ENZYME MICROB. TECHNOL. (1986), 8(7), 404-8ENZYME MICROB. TECHNOL. (1986), 8(7), 404-8

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US7067291B2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

EPO simple patent family

EP 0859060 A2 19980819; EP 0859060 A3 20000726; JP H10286098 A 19981027; US 6015698 A 20000118

INPADOC legal status

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- Free text : DE FR GB IT

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- Effective date : 20000831

2000-07-26 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A3
- Designated State(s) : AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

2000-07-26 [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO:
- Free text : AL;LT;LV;MK;RO;SI

1998-08-19 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A2
- Designated State(s) : DE FR GB IT

1998-08-19 [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO:
- Free text : AL;LT;LV;MK;RO;SI